

It should also be appreciated that an alternative method of determining the anatomical material of the starting univel could also be accomplished by using an integer floor or ceiling value of the univel containing the initial point. With this alternative, it is even within the scope of the present invention that steps 162 and 164 could be interposed such that the anatomical material of the starting univel is determined before setting the initial conditions.

As the particle is tracked, it is evident that coordinates corresponding to the secondary and tertiary directions of movement will need to be updated as the primary (Y) coordinate is tracked in integer based increments. Since the secondary and tertiary directions of movement are treated in the same manner, they will be described hereinafter as secondary directions of movement. Thus, at step 168, error terms are calculated for the secondary directions of movement to keep track of when either should be independently incremented. Preferably this adjustment occurs if either exceeds a predetermined threshold.

Thereafter, at step 170, the movement of the particle along the particle track is traversed in integer based increments along the primary direction of movement into the "next" univel. In this context, this traversal is also referred to as a "step" since it occurs in integer based increments.

Thus, with reference to the table 210 (Figure 7), the traversal of the particle along the particle track steps in the Y direction according to $y_1 = 1.5$, $y_2 = 2.5$, $y_3 = 3.5$ until the